

Listing of the Claims

This listing of the claims replaces all prior versions of the claims in the application.

Claims 1-21. (Canceled)

Claim 22. (New) An isolated polypeptide selected from the group consisting of:

- a) a polypeptide comprising an amino acid sequence selected from the group consisting of SEQ ID NO:1-6,
- b) a polypeptide comprising a naturally occurring amino acid sequence at least 90% identical to an amino acid sequence selected from the group consisting of SEQ ID NO:1-6,
- c) a biologically active fragment of a polypeptide having an amino acid sequence selected from the group consisting of SEQ ID NO:1-6, and
- d) an immunogenic fragment of a polypeptide having an amino acid sequence selected from the group consisting of SEQ ID NO:1-6.

Claim 23. (New) An isolated polypeptide of claim 22 comprising an amino acid sequence selected from the group consisting of SEQ ID NO:1-6.

Claim 24. (New) An isolated polynucleotide encoding a polypeptide of claim 22.

Claim 25. (New) An isolated polynucleotide encoding a polypeptide of claim 23.

Claim 26. (New) An isolated polynucleotide of claim 25 comprising a polynucleotide sequence selected from the group consisting of SEQ ID NO:7-12.

Claim 27. (New) A recombinant polynucleotide comprising a promoter sequence operably linked to a polynucleotide of claim 24.

Claim 28. (New) A cell transformed with a recombinant polynucleotide of claim 27.

Claim 29. (New) A transgenic organism comprising a recombinant polynucleotide of claim 27.

Claim 30. (New) A method of producing a polypeptide of claim 22, the method comprising:

- a) culturing a cell under conditions suitable for expression of the polypeptide, wherein said cell is transformed with a recombinant polynucleotide, and said recombinant polynucleotide comprises a promoter sequence operably linked to a polynucleotide encoding the polypeptide of claim 22, and
- b) recovering the polypeptide so expressed.

Claim 31. (New) A method of claim 30, wherein the polypeptide comprises an amino acid sequence selected from the group consisting of SEQ ID NO:1-6.

Claim 32. (New) An isolated antibody which specifically binds to a polypeptide of claim 22.

Claim 33. (New) An isolated polynucleotide of Claim 22, wherein said polynucleotide is selected from the group consisting of:

- a) a polynucleotide comprising a polynucleotide sequence selected from the group consisting of SEQ ID NO:7-12,
- b) a polynucleotide comprising a naturally occurring polynucleotide sequence at least 90% identical to a polynucleotide sequence selected from the group consisting of SEQ ID NO:7-12,
- c) a polynucleotide complementary to a polynucleotide of a),
- d) a polynucleotide complementary to a polynucleotide of b), and
- e) an RNA equivalent of a)-d).

Claim 34. (New) An isolated polynucleotide comprising at least 60 contiguous nucleotides of a polynucleotide of claim 33.

Claim 35. (New) A method of detecting a target polynucleotide in a sample, said target polynucleotide having a sequence of a polynucleotide of claim 33, the method comprising:

- a) hybridizing the sample with a probe comprising at least 20 contiguous nucleotides comprising a sequence complementary to said target polynucleotide in the sample, and which probe specifically hybridizes to said target polynucleotide, under conditions whereby a hybridization complex is formed between said probe and said target polynucleotide or fragments thereof, and
- b) detecting the presence or absence of said hybridization complex, and, optionally, if present, the amount thereof.

Claim 36. (New) A method of claim 35, wherein the probe comprises at least 60 contiguous nucleotides.

Claim 37. (New) A method of detecting a target polynucleotide in a sample, said target polynucleotide having a sequence of a polynucleotide of claim 33, the method comprising:

- a) amplifying said target polynucleotide or fragment thereof using polymerase chain reaction amplification, and
- b) detecting the presence or absence of said amplified target polynucleotide or fragment thereof, and, optionally, if present, the amount thereof.

Claim 38. (New) A microarray wherein at least one element of the microarray is a polynucleotide of claim 33.

Claim 39. (New) A method of generating an expression profile of a sample which contains polynucleotides, the method comprising:

- a) labeling the polynucleotides of the sample,
- b) contacting the elements of the microarray of claim 38 with the labeled polynucleotides of the sample under conditions suitable for the formation of a hybridization complex, and
- c) quantifying the expression of the polynucleotides in the sample.

Claim 40. (New) An array comprising different nucleotide molecules affixed in distinct physical locations on a solid substrate, wherein at least one of said nucleotide molecules comprises a first oligonucleotide or polynucleotide sequence specifically hybridizable with at least 30 contiguous nucleotides of a target polynucleotide, and wherein said target polynucleotide is a polynucleotide of claim 33.

Claim 41. (New) An array of claim 40, wherein said first oligonucleotide or polynucleotide sequence is completely complementary to at least 30 contiguous nucleotides of said target polynucleotide.